Zephyr®

Patient Transfer System

MR Conditional
Patient Transfer Stretcher Manual

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This manual contains the latest information at the time of publication. Diacor, Inc. reserves the right to revise this manual without notice.

INTENDED USE

The Zephyr MR Patient Transfer Stretcher is intended to be used in tandem with the Zephyr Patient Transfer Sled to easily and safely move patients between the stretcher and imaging tabletop or treatment couch and to transfer patients from room to room.

The Zephyr MR Patient Transfer Stretcher is intended for use only by physicians qualified in diagnostic imaging or radiation oncology and experienced in gynecologic or prostate cancer planning or treatment, or by therapists at the specific direction of such qualified physicians.

EC REP

Diacor, Inc. has appointed M. Devices Group as our EU Authorized Representative. Contact Information: M. Devices Group, Marlborough House, Riding Street, Southport, PR8 1EW, United Kingdom,
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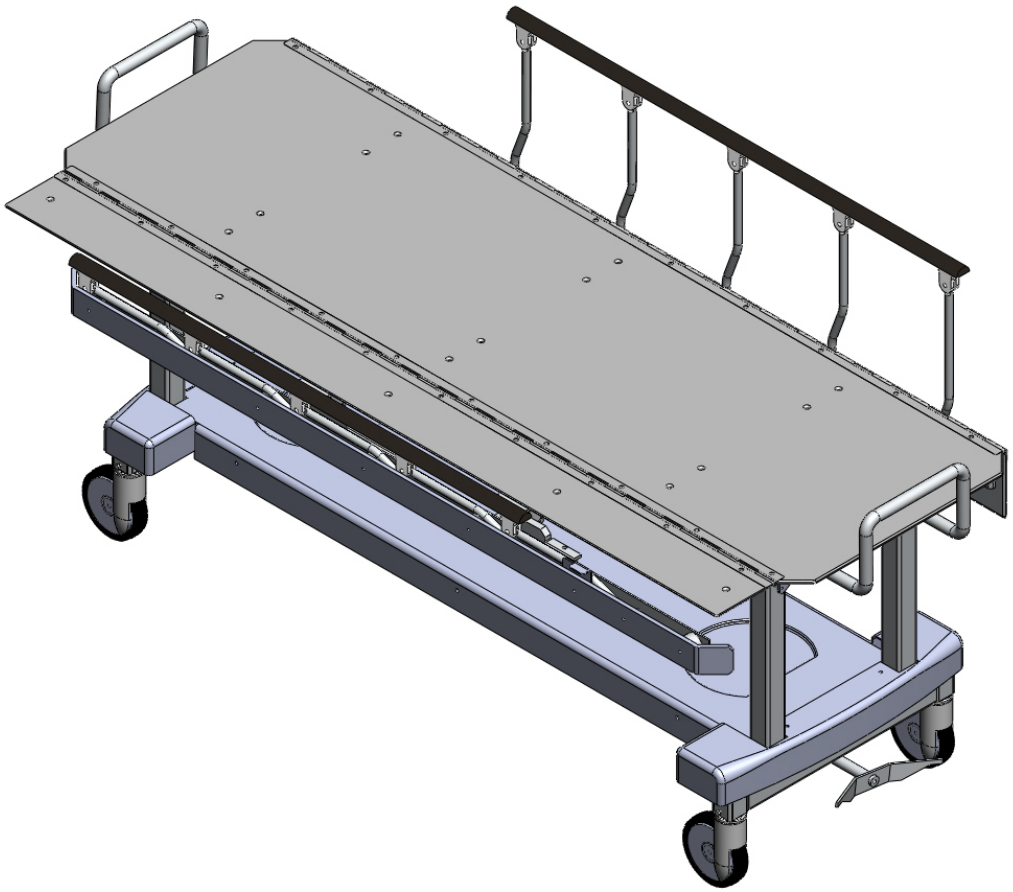

Figure 1.1 Diacor Zephyr MR Patient Transfer Stretcher

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SECTION 1

INTRODUCTION

The Diacor Zephyr™ MR Patient Transfer Stretcher with accessories provides the capability to easily move a patient on the Zephyr Patient Transfer Sled to or from a flat surface or flat table top (FTT). The stretcher also provides the means to move a patient from one location to another.

The Patient Transfer Stretcher consists of a flat aluminum top that is mounted to a conventional patient stretcher. This flat aluminum surface has a hinged extension along each side that folds up to create a bridge between the stretcher and a flat surface such as a MR FTT. The MR Patient Transfer Stretcher is part of a patient transfer system that includes a Patient Transfer Sled.

The Diacor Zephyr MR Patient Transfer Stretcher was tested for compatibility with a 3 Tesla Siemens Magnetom TRIO.

Items were checked to see if they could be used near the bore of the MR Magnet. If there was no magnetic pull, they would then be determined to be acceptable for use with a 3T System.

The Diacor Zephyr MR Patient Transfer Stretcher is MR Conditional for 3T.

Please note that throughout the manual, references are made about how the Diacor Zephyr MR Patient Transfer Stretcher is used with a MR FTT (Flat Table Top). The Zephyr MR Patient Transfer Stretcher can be used with any imaging or treatment FTT.

SECTION 2

GENERAL DESCRIPTION

2.1 GENERAL

This section contains a brief description of the features and physical characteristics of the Diacor Zephyr MR Patient Transfer Stretcher.

2.2 FEATURES

Figure 2.1 shows the Zephyr Transfer Stretcher with pointers to the various features of the device.

2.2.1 Stretcher Top and Extensions

Along the two long sides of the flat aluminum top are hinged extensions that serve as bridges between the stretcher top and the FTT (flat table top) to or from which a patient on the sled is transferred. When not in use, the hinged extensions should be locked in a vertical position.

2.2.2 Stretcher Top Bridge Extension

To raise the bridge extensions lift the extension to a horizontal position and pull the support bar out from underneath the extension.

2.2.3 Stretcher Top End Stops

The pull up handles at each end of the stretcher serve as stops to prevent the Zephyr Transfer Sled from being pushed off either end of the stretcher top.

2.2.4 Air Blower Transfer Cage

A cage (not shown) can be carried on the bottom of the stretcher and is designed to hold the air blower used on the Zephyr Transfer Sled. This allows the air blower to be carried with the stretcher when it is moved from room to room.

WARNING

The cage and blower are not MR safe and must never be brought into the MR suite!

2.2.5 Stretcher Hand Rails

Hand rails are provided on both sides of the stretcher. These rails can be released and moved under the stretcher table top during transfer of a patient to or from the stretcher. Whenever

the patient is left on the stretcher or moved, the hand rails should be lifted and locked in place.

2.2.6 Wheel Locks

The stretcher provides locks on each of the stretcher wheels that can be set and released from both ends of the stretcher. It is critical that the stretcher wheel locks are set whenever the stretcher is stopped and a patient is being moved to or from the stretcher.

WARNING

To prevent possible injury to the patient, the stretcher wheel locks must be set before turning the air blower on and whenever a patient is being moved to or from the stretcher.

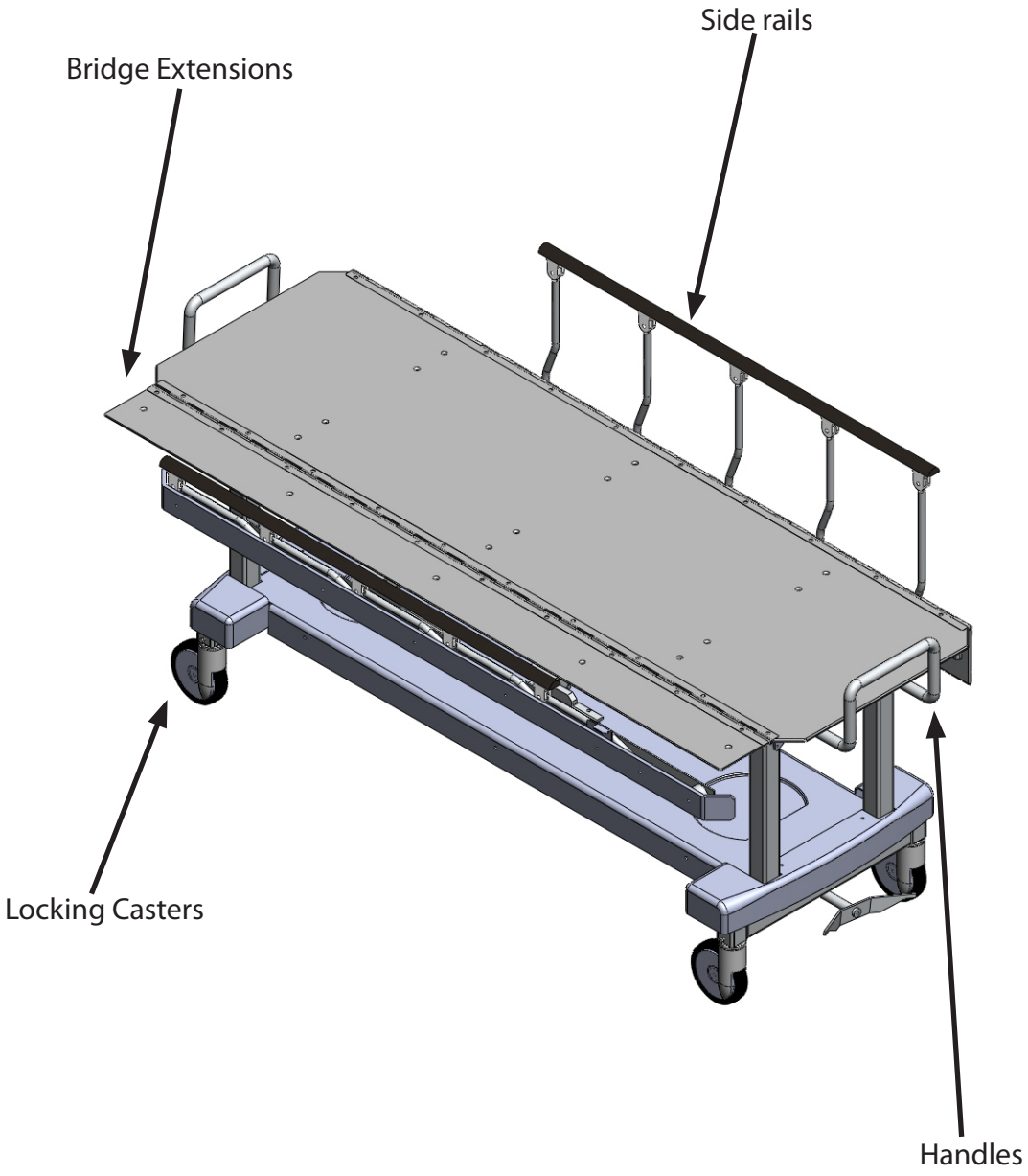

Figure 2.1 Zephyr MR Stretcher Features

SECTION 3

UNPACKING, INSTALLATION, USE

3.1 GENERAL

The Diacor Zephyr MR Transfer Stretcher is designed to be ready for use following removal from its packing container and removal of packing protection restraints.

3.2 UNPACKING AND INSPECTION

When the Zephyr MR Transfer Stretcher arrives, inspect all shipping containers for evidence of physical damage. If there are any dents, scratches or other evidence of physical damage to the boxes, note the damage on the shipper's copy of the bill of lading and file a claim against the shipper.

In the case of shortages or malfunctions, notify Diacor immediately to arrange for replacement or repair. Refer to sections 5.3 for the discussion of replacement or repair of products under warranty. Save all packing containers and materials for the Zephyr MR Transfer Stretcher in the event it needs to be returned to Diacor for replacement or repair.

3.3 INSTALLATION

The Zephyr MR Transfer Stretcher requires minimal inspection before it is ready to use. The two top extensions should rotate freely on their hinges between the down and horizontal positions. The two stretcher side rails should lift and lock in place. The stretcher brakes should release and lock the wheels.

3.4 USE

The stretcher is ready to be used upon removal from the shipping container. However, there are two functions that must be accomplished.

First, adjustments to establish the fixed or resting height of the stretcher must be made to match a determined height of the MR FTT. These adjustments must be made before the stretcher is used to transfer a patient on a sled to another flat surface such as the MR FTT.

Second, the stretcher should be cleaned by the standard requirements of the user of any product that may come in contact with a patient.

3.4.1 Set the Stretcher Height

The stretcher is designed for a fixed height. However, a small adjustment in the wheel height may be needed to ensure that when the extension is in the horizontal position it will be flush with the FTT from end to end. Both the head and foot end of the stretcher may be separately adjusted to match the MR FTT height, but usually only one end of the stretcher needs adjustment. To set the stretcher height, move the stretcher next to the MR FTT with the stretcher extension in the horizontal position. Adjust the height of the MR FTT to the height of the extension. At this time one end of the extension may be higher than the other. If this is the case, the lowest end requires a wheel height adjustment. (Figure 3.1 shows the height adjustments on the wheels.) To do this, first remove the two phillips screws holding the end cover, and remove the cover.

Next, loosen the set screws on each of the two wheels on the lowest end of the stretcher. With a 15/16 wrench, turn the bolt clockwise to raise the height of the stretcher. When both ends of the stretcher extension are flush with the surface of the FTT then tighten the set screws. At another time, if the stretcher is used against the opposite side of the MR FTT or the opposite extension is used, it may be necessary to readjust the height.

3.4.2 Use with Sled and Patient

The following steps are suggested to utilize the Zephyr MR Transfer Stretcher with the Zephyr Patient Transfer Sled. These steps assume that the stretcher wheel heights have been set to match the MR FTT. Refer to the User Manual for the Zephyr Patient Transfer Sled for details on its use and operation.

Adjust the Stretcher to Allow a Patient to Sit On or Exit the Sled

1. Position the sled to the edge of the stretcher.
2. Lock the wheels.
3. With a foot stool, assist the patient onto the sled.
4. Assist the patient as they sit on the sled. Adjust patient's position on the sled and in the stirrups to physician's standards.

Adjust the Stretcher to Move the Stretcher and Patient to the MR Room

1. Unlock the stretcher wheels.
2. Raise and lock the stretcher side rails in the up position.
3. Move the stretcher with sled and patient to the MR room entrance.
4. Remove the cage and blower from the stretcher before entering the MR Suite. The cage and blower are not MR safe and must never be brought into the MR suite!

Adjust the Stretcher to Allow Sled and Patient Transfer to MR FTT

1. Drop the side rail and raise the stretcher extension next to the MR table.
2. Adjust the elevation of the MR FTT to be flush with the stretcher bridge extensions.
3. Move the stretcher close to the MR FTT so that there is no gap between the FTT and the stretcher extension.
4. Lock the wheels of the stretcher.

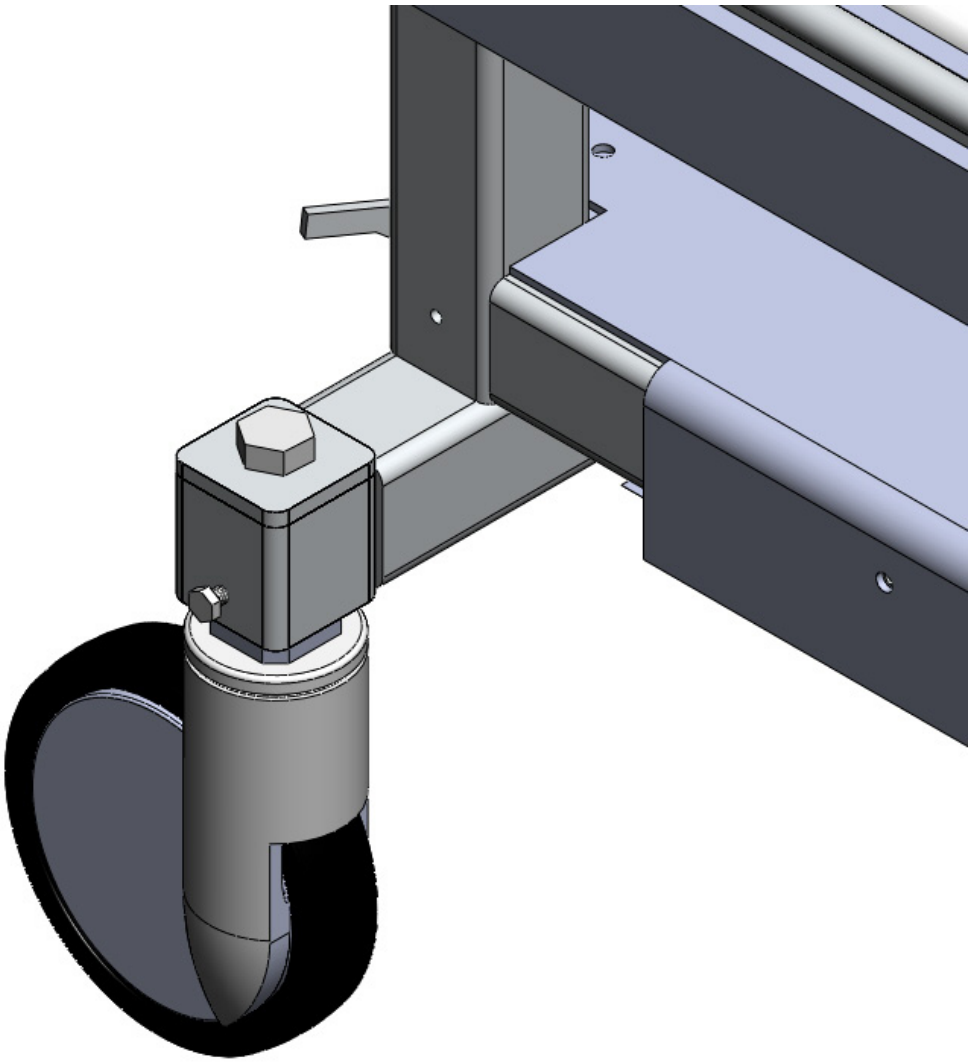

Figure 3.1 View of MR Zephyr Height Adjustments

WARNING

To prevent inadvertent movement of the sled and to ensure patient's safety, two people must always assist in moving the patient whenever the sled is supported by the air pads.

Alignment guides are designed to help the sled remain on the MR FTT.

Transfer the Sled and Patient to the MR FTT

1. Connect the Air Blower to the sled and to electrical power.
2. Turn the blower on and with two therapists, slide the sled on the stretcher to the MR FTT until the sled is fully supported by the FTT. Then turn the air blower off.

WARNING

The patient and users must keep their fingers above the sled to prevent pinching when the Air Blower is turned off and the sled settles to its supporting surface.

Transfer the Sled and Patient on the MR FTT

1. Place the sled guides in the down position.
2. Turn on the Air Blower to move the sled and patient to other positions on the FTT. Use two people to move the sled. Turn off the Air Blower when the desired position is reached.

Reverse these steps as the sled and patient are moved from the MR FTT to the stretcher and the patient is assisted from the sled.

WARNING

Before sliding the sled from the MR FTT to the stretcher, the four alignment guides must be in the up position. Failure to do so may cause damage to the FTT and may make movement of the sled difficult.

SECTION

4

SERVICING

4.1 GENERAL

The Diacor Zephyr MR Patient Transfer Stretcher requires careful handling and cleaning following each use but generally requires minimal service.

4.2 CLEANING

The Zephyr MR Patient Transfer Stretcher and accessories experience noncritical patient contact. It is important to thoroughly clean these parts following each use.

4.2.1 CLEANING METHOD

After each use, wipe the surfaces of the stretcher and the support accessories with wipes containing a mild cleaning and disinfecting solution of 14% alcohol and active quaternary ammonium chlorides or a similar disinfecting solution. (One such solution is offered by Professional Disposables International with a trade name of SANI-CLOTH® PLUS). After the cleaning process is complete, let the cleaned surfaces air dry. Do not use water as either a cleaning or rinsing agent. Never use aerosol cleaning sprays, cleaning agents, solvents or abrasive detergents.

4.3 PERIODIC MAINTENANCE

Periodic checks of the Zephyr Patient Transfer Stretcher should be done to ensure the wheels have not loosened in the legs. Check to ensure the wheels lock. Repair and replace as necessary.

4.4 HANDLING AND STORAGE

Handle the stretcher carefully to prevent damage. Store in a safe place when not used.

SECTION 5

WARRANTY

5.1 GENERAL

The Zephyr MR Patient Transfer Stretcher and all the associated parts for this system are warranted by Diacor for a period of one (1) year from the date of shipment.

The Diacor warranty coverage is limited to defective materials or workmanship. The warranty is void if the Zephyr MR Patient Transfer Stretcher has been damaged by accident, unreasonable or improper use, neglect, or other causes not arising out of defects in material or workmanship.

5.2 WARRANTY DISCLAIMERS

The express warranty provided herein is in lieu of any and all implied warranties arising out of the sale of the Zephyr MR Patient Transfer Stretcher, including but not limited to the implied warranties of merchantability and fitness for a particular purpose. Diacor shall not be liable for loss of use of the Zephyr MR Patient Transfer Stretcher or other incidental or consequential costs, expenses, or damages incurred by the customer or other user.

5.3 WARRANTY PERFORMANCE

During the stated warranty period, the Zephyr MR Patient Transfer Stretcher will be repaired or replaced, at the option of Diacor, Inc., with a new or reconditioned Zephyr MR Patient Transfer Stretcher when the unit is returned shipping prepaid to Diacor, Inc., 2550 Decker Lake Blvd., Suite 26, Salt Lake City, Utah 84119. Please contact Diacor, 800-342-2679 or 801-467-0050, for a Return Material Authorization (RMA) prior to sending the defective unit to us. The replacement of a Zephyr MR Patient Transfer Stretcher will not extend the expressed warranty stated herein beyond the original warranty period.

SECTION 6

TECHNICAL INFORMATION

6.1 SPECIFICATIONS

Weight	***250 lb. 113.4 kg.***
Length (with handles up)	***83.25 in. 211.5 cm.***
Length (with handles down)	***80 in. 203.2 cm.***
Width (with side rails down and extensions down)	***24.9 in. 63.2 cm.***
Width (with side rails up)	***35 in. 88.9 cm.***
Side Rail Length	***48 in. 121.9 cm.***
Wheel Base	***24 in. x 66 in. 61 cm. x 167.6 cm.***
Caster Size	***5 in.diameter 12.7 cm. diameter***
Maximum Working Load	***600 lb. 272 kg.***